

SEQUENCE LISTING

<110> Tang, Y. Tom
Guegler, Karl J.
Corley, Neil C.
Gorgone, Gina A.
Yue, Henry

<120> CALCIUM BINDING PROTEIN

<130> PF-0635-2 DIV

<140> To Be Assigned
<141> Herewith

<160> 5

<170> PERL Program

<210> 1
<211> 337
<212> PRT
<213> Homo sapiens

<220> -
<223> 3734805

<400> 1
Met Lys Lys Met Pro Leu Phe Ser Lys Ser His Lys Asn Pro Ala
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Glu Ile Val Lys Ile Leu Lys Asp Asn Leu Ala Ile Leu Glu Lys
20 25 30
Gln Asp Lys Lys Thr Asp Lys Ala Ser Glu Glu Val Ser Lys Ser
35 40 45
Leu Gln Ala Met Lys Glu Ile Leu Cys Gly Thr Asn Glu Lys Glu
50 55 60
Pro Pro Thr Glu Ala Val Ala Gln Leu Ala Gln Glu Leu Tyr Ser
65 70 75
Ser Gly Leu Leu Val Thr Leu Ile Ala Asp Leu Gln Leu Ile Asp
80 85 90
Phe Glu Gly Lys Lys Asp Val Thr Gln Ile Phe Asn Asn Ile Leu
95 100 105
Arg Arg Gln Ile Gly Thr Arg Ser Pro Thr Val Glu Tyr Ile Ser
110 115 120
Ala His Pro His Ile Leu Phe Met Leu Leu Lys Gly Tyr Glu Ala
125 130 135
Pro Gln Ile Ala Leu Arg Cys Gly Ile Met Leu Arg Glu Cys Ile
140 145 150
Arg His Glu Pro Leu Ala Lys Ile Ile Leu Phe Ser Asn Gln Phe
155 160 165
Arg Asp Phe Phe Lys Tyr Val Glu Leu Ser Thr Phe Asp Ile Ala
170 175 180
Ser Asp Ala Phe Ala Thr Phe Lys Asp Leu Leu Thr Arg His Lys
185 190 195
Val Leu Val Ala Asp Phe Leu Glu Gln Asn Tyr Asp Thr Ile Phe
200 205 210
Glu Asp Tyr Glu Lys Leu Leu Gln Ser Glu Asn Tyr Val Thr Lys
215 220 225

PF-0635-2 DIV

Arg Gln Ser Leu Lys Leu Leu Gly Glu Leu Ile Leu Asp Arg His		
230	235	240
Asn Phe Ala Ile Met Thr Lys Tyr Ile Ser Lys Pro Glu Asn Leu		
245	250	255
Lys Leu Met Met Asn Leu Leu Arg Asp Lys Ser Pro Asn Ile Gln		
260	265	270
Phe Glu Ala Phe His Val Phe Lys Val Phe Val Ala Ser Pro His		
275	280	285
Lys Thr Gln Pro Ile Val Glu Ile Leu Leu Lys Asn Gln Pro Lys		
290	295	300
Leu Ile Glu Phe Leu Ser Ser Phe Gln Lys Glu Arg Thr Asp Asp		
305	310	315
Glu Gln Phe Ala Asp Glu Lys Asn Tyr Leu Ile Lys Gln Ile Arg		
320	325	330
Asp Leu Lys Lys Thr Ala Pro		
335		

<210> 2
<211> 1344
<212> DNA
<213> Homo sapiens

<220> -
<223> 3734805

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cacatggaaa aaatgccttt gtttagtaaa tcacacaaaa atccagcaga aattgtgaaa 180
atccgtggaa acataatggc cattttggaa aaccaagaca aaaaagacaga caaggcttca 240
gaagaagtgt ttcaatcaact gcaagcaatg aaaaagatc ttgtgtgtac aacccgaaaa 300
gaacccccga cagaaggcgt gcgttcagcta gcacaaagaa ctatcagcag tgccctgtcg 360
gtgacactga tagctgaccc gcacgtcgata gactttggg gaaaaaaaaaaaaga ttttgaccat 420
atatttaaac acatcttgg aagacagata ggcactcgga gtctctatgt ggatgtatatt 480
agtgtcatac ctcatatccgt gttttatgtc ctccaaaggat atgaaggcccc acagattgtcc 540
ttatcggtgt ggatttatgtc gagagatgt attcgacatg aaccatctgc aaaaatcatc 600
ctcttttcta atcaatttcag agatttcttt aagtacgtgg agttgtcaac atttgatatt 660
gcttcagatg ctttgcgtac ttcaaggat ttactaaacca gacataaaatgt ttgtgttagca 720
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caacaaccttgc ccatcatgac aaagtatac acggacccgg aqaaacctgaa actcatgtat 900
aaccccttcg ggataaaagg tcccaacatc cagtttgcgg ttttacatgt ttttaagggtg 960
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gacgagaaga actacttgtt taaaacagatc cggatgtga aaaaaacggc cccttgaaga 1140
gctcccccgc ccctgtcaca gtcatgttc tcattttgtcc agttttgtaca ttgtgttcatt 1200
tcagaaatgtc atcatcttgc ggaagacttt ggaggtgcctt atttttctgt ctgttaatgtt 1260
tctgggtaga tggatataa acatgttgaat ggaaaaaaat taaccttagaa taatataattc 1320
attttagtca aaaaaaaaaaaa aaaa 1344

<210> 3
<211> 341
<212> PRT
<213> Mus sp.

<220> -

PF-0635-2 DIV

<223> g262934

<400> 3

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Val	Lys	Asn	Leu	Lys	Glu	Ser	Met	Ala	Val	Leu	Glu	Lys	Gln	Asp
					20				25					30
Ile	Ser	Asp	Lys	Lys	Ala	Glu	Lys	Ala	Thr	Glu	Glu	Val	Ser	Lys
					35				40					45
Asn	Leu	Val	Ala	Met	Lys	Glu	Ile	Leu	Tyr	Gly	Thr	Asn	Glu	Lys
					50				55					60
Glu	Pro	Gln	Thr	Glu	Ala	Ala	Val	Ala	Gln	Leu	Ala	Gln	Glu	Leu
					65				70					75
Asn	Ser	Gly	Leu	Leu	Gly	Thr	Leu	Val	Ala	Asp	Leu	Gln	Leu	Ile
					80				85					90
Asp	Phe	Glu	Gly	Lys	Lys	Asp	Val	Ala	Gln	Ile	Phe	Asn	Asn	Ile
					95				100					105
Leu	Arg	Arg	Gln	Ile	Gly	Thr	Arg	Thr	Pro	Thr	Val	Glu	Tyr	Ile
					110				115					120
Cys	Thr	Gln	Gln	Asn	Ile	Leu	Phe	Met	Leu	Leu	Lys	Gly	Tyr	Glu
					125				130					135
Ser	Pro	Glu	Ile	Ala	Leu	Asn	Cys	Gly	Ile	Met	Leu	Arg	Glu	Cys
					140				145					150
Ile	Arg	His	Glu	Pro	Leu	Ala	Lys	Ile	Ile	Leu	Trp	Ser	Glu	Gln
					155				160					165
Phe	Tyr	Asp	Phe	Phe	Arg	Tyr	Val	Glu	Met	Ser	Thr	Phe	Asp	Ile
					170				175					180
Ala	Ser	Asp	Ala	Phe	Ala	Thr	Phe	Lys	Asp	Leu	Leu	Thr	Arg	His
					185				190					195
Lys	Leu	Leu	Ser	Ala	Glu	Phe	Leu	Glu	Gln	His	Tyr	Asp	Arg	Phe
					200				205					210
Phe	Ser	Glu	Tyr	Glu	Lys	Leu	Leu	His	Ser	Glu	Asn	Tyr	Val	Thr
					215				220					225
Lys	Arg	Gln	Ser	Leu	Lys	Leu	Leu	Gly	Glu	Leu	Leu	Leu	Asp	Arg
					230				235					240
His	Asn	Phe	Thr	Ile	Met	Thr	Lys	Tyr	Ile	Ser	Lys	Pro	Glu	Asn
					245				250					255
Leu	Lys	Leu	Met	Met	Asn	Leu	Leu	Arg	Asp	Lys	Ser	Arg	Asn	Ile
					260				265					270
Gln	Phe	Glu	Ala	Phe	His	Val	Phe	Lys	Val	Phe	Val	Ala	Asn	Pro
					275				280					285
Asn	Lys	Thr	Gln	Pro	Ile	Leu	Asp	Ile	Leu	Leu	Lys	Asn	Gln	Thr
					290				295					300
Lys	Leu	Ile	Glu	Phe	Leu	Ser	Lys	Phe	Gln	Asn	Asp	Arg	Thr	Glu
					305				310					315
Asp	Glu	Gln	Phe	Asn	Asp	Glu	Lys	Thr	Tyr	Leu	Val	Lys	Gln	Ile
					320				325					330
Arg	Asn	Leu	Lys	Arg	Ala	Ala	Gln	Gln	Glu	Ala				
					335				340					

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<211> 339

<212> PRT

<213> Drosophila melanogaster

<220> -

<223> g1794137

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 20 25 30
 Lys Val Glu Lys Ala Gln Glu Asp Val Ser Lys Asn Leu Val Ser
 35 40 45
 Ile Lys Asn Met Leu His Gly Ser Ser Asp Ala Glu Pro Pro Ala
 50 55 60
 Asp Tyr Val Val Ala Gln Leu Ser Gln Glu Leu Tyr Asn Ser Asn
 65 70 75
 Leu Leu Leu Leu Ile Gln Asn Leu His Arg Ile Asp Phe Glu
 80 85 90
 Gly Lys Lys His Val Ala Leu Ile Phe Asn Asn Leu Leu Arg Arg
 95 100 105
 Gln Ile Gly Thr Arg Ser Pro Thr Val Glu Tyr Ile Cys Thr Lys
 110 115 120
 Pro Glu Ile Leu Phe Thr Leu Met Ala Gly Tyr Glu Asp Ala His
 125 130 135
 Pro Glu Ile Ala Leu Asn Ser Gly Thr Met Leu Arg Glu Cys Ala
 140 145 150
 Arg Tyr Glu Ala Leu Ala Lys Ile Met Leu His Ser Asp Glu Phe
 155 160 165
 Phe Lys Phe Phe Arg Tyr Val Glu Val Ser Thr Phe Asp Ile Ala
 170 175 180
 Ser Asp Ala Phe Ser Thr Phe Lys Glu Leu Leu Thr Arg His Lys
 185 190 195
 Leu Leu Cys Ala Glu Phe Leu Asp Ala Asn Tyr Asp Lys Phe Phe
 200 205 210
 Ser Gln His Tyr Gln Arg Leu Leu Asn Ser Glu Asn Tyr Val Thr
 215 220 225
 Arg Arg Gln Ser Leu Lys Leu Leu Gly Glu Leu Leu Asp Arg
 230 235 240
 His Asn Phe Thr Val Met Thr Arg Tyr Ile Ser Glu Pro Glu Asn
 245 250 255
 Leu Lys Leu Met Met Asn Met Leu Lys Glu Lys Ser Arg Asn Ile
 260 265 270
 Gln Phe Glu Ala Phe His Val Phe Lys Val Phe Val Ala Asn Pro
 275 280 285
 Asn Lys Pro Lys Pro Ile Leu Asp Ile Leu Leu Arg Asn Gln Thr
 290 295 300
 Lys Leu Val Asp Phe Leu Thr Asn Phe His Thr Asp Arg Ser Glu
 305 310 315
 Asp Glu Gln Phe Asn Asp Glu Lys Ala Tyr Leu Ile Lys Gln Ile
 320 325 330
 Lys Glu Leu Lys Pro Leu Pro Glu Ala
 335

<210> 5
<211> 377
<212> PRT
<213> Caenorhabditis elegans

<220> -
<223> g1255838

<400> 5

Met Pro Leu Leu Phe Gly Lys Ser His Lys Ser Pro Ala Asp Val
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 Val Lys Thr Leu Arg Glu Val Leu Thr Ile Leu Asp Lys Leu Pro
 20 25 30
 Pro Pro Lys Leu Asp Lys Asp Gly Asn Ile Gln Ser Asp Lys Lys
 35 40 45
 Tyr Asp Lys Ala Leu Asp Glu Val Ser Lys Asn Val Ala Met Ile
 50 55 60
 Lys Ser Phe Ile Tyr Gly Asn Asp Ser Ala Glu Pro Ser Ser Glu
 65 70 75
 His Val Val Gln Val Ala Gln Leu Ala Gln Glu Val Tyr Asn Ala
 80 85 90
 Asn Ile Leu Pro Met Leu Ile Lys Met Leu Pro Lys Phe Glu Phe
 95 100 105
 Glu Cys Lys Lys Asp Val Gly Gln Ile Phe Asn Asn Leu Leu Arg
 110 115 120
 Arg Gln Ile Gly Thr Arg Ser Pro Thr Val Glu Tyr Leu Gly Ala
 125 130 135
 Arg Pro Glu Ile Leu Ile Gln Leu Val Gln Gln Gly Tyr Ser Val Pro
 140 145 150
 Asp Ile Ala Leu Thr Cys Gly Leu Met Leu Arg Glu Ser Ile Arg
 155 160 165
 His Asp His Leu Ala Lys Ile Ile Leu Tyr Ser Asp Val Phe Tyr
 170 175 180
 Thr Phe Phe Leu Tyr Val Gln Ser Glu Val Phe Asp Ile Ser Ser
 185 190 195
 Asp Ala Phe Ser Thr Phe Lys Glu Leu Thr Thr Arg His Lys Ala
 200 205 210
 Ile Ile Ala Glu Phe Leu Asp Ser Asn Tyr Asp Thr Phe Phe Ala
 215 220 225
 Gln Tyr Gln Asn Leu Leu Asn Ser Lys Asn Tyr Val Thr Arg Arg
 230 235 240
 Gln Ser Leu Lys Leu Leu Gly Glu Leu Leu Asp Arg His Asn
 245 250 255
 Phe Asn Thr Met Thr Lys Tyr Ile Ser Asn Pro Asp Asn Leu Arg
 260 265 270
 Leu Met Met Glu Leu Leu Arg Asp Lys Ser Arg Asn Ile Gln Tyr
 275 280 285
 Glu Ala Phe His Val Phe Lys Val Phe Val Ala Asn Pro Asn Lys
 290 295 300
 Pro Lys Pro Ile Ser Asp Ile Leu Asn Arg Asn Arg Glu Lys Leu
 305 310 315
 Val Glu Phe Leu Ser Glu Phe His Asn Asp Arg Thr Asp Asp Glu
 320 325 330
 Gln Phe Asn Asp Glu Lys Ala Tyr Leu Ile Lys Gln Ile Gln Glu
 335 340 345
 Met Lys Ser Ser Pro Lys Glu Ala Lys Lys Pro Lys Ser Lys Glu
 350 355 360
 Asp Glu Asn Gln Glu Pro Ala Gly Pro Ser Glu Gly Pro Ser Thr
 365 370 375
 Ser Gln